

By Speed Post

F. No. B-190194/WQM-II/CPCB/Chemical (Ferti)/2017-18

01-02- 2018

To,

**M/s Kanpur Fertilizers & Cement Ltd.
(formerly known as Duncan fertilizer),
CEE KAY Estate, Panki Industrial Area,
P.O. Udyog Nagar, Kanpur,
Uttar Pradesh**

17045

**DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT,
1986**

WHEREAS, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries under the Environment (Protection) Act, 1986 and the rules framed there under; and

WHEREAS, the Ministry of Environment, Forest and Climate Change, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986 and other standards and norms; and

WHEREAS, M/s Kanpur Fertilizers & Cement Ltd. (formerly known as Duncan fertilizer), CEE KAY Estate, Panki Industrial Area, P.O. Udyog Nagar, Kanpur, Uttar Pradesh (hereafter referred as 'the Unit') is involving in manufacturing of fertilizers; and

WHEREAS, the Unit was inspected under the order of Hon'ble NGT dt. 13.07.2017 by the joint team of officials from NMCG, CPCB and UPPCB on 19.08.2017 and observed the following:

1. The unit and its ETP were found operational at the time of inspection.
2. The ETP effluent samples was collected and analytical results indicates that unit is not complying within the prescribed effluent discharge standards w.r.t. SS: 327 mg/l (as against norms of 100 mg/l) and Nitrate: 18.2 mg/l (as against norms of 10mg/l).
3. It is evident from the above observations that the Unit is violating the prescribed effluent discharge standards notified under the Environment (Protection) Rules, 1986, and the discharges of untreated/partially treated effluent into ICI drain posing serious threat to river water quality.

AND WHEREAS, Hon'ble NGT in its order dated 13.07.2017 in OA. No. 200of 2014 in the matter of M. C. Mehta Vs Union of India & Others pronounced judgment " *The joint inspection team shall inspect all the 40 highly polluting industries in this segment and would issue appropriate directions to ensure that discharge from theses industries is sticky within the prescribed norms. If the directions issued by the Joint inspection team are not carried out by these industries within the prescribed time, they shall be liable to be shutdown till compliance and subject to further orders of the tribunal*".

AND WHEREAS, CPCB issued show cause notice under section 5 of the Environment (Protection) Act, 1986 on dated 09.10.2017; and

WHEREAS, the unit replies vide letters dated 28-10-2017 was examined and following observations are made:

1. The unit has submitted that due to ongoing rain during the monsoon season the ingress of debris and dust resulted in accumulation of dust which was found in the monsoon drain during the inspection (19-08-2017) leading to increase TSS in the sample of effluent water. The details of ongoing civil construction scheme at as cost of Rs. 1.82 cr along with photographs is attached herewith.
2. The unit has submitted that due to the accumulation of dust in the bottom of drain channels, the same could give rise to nitrifying bacteria because of water being little Ammonical. This ultimately, resulted into the formation of **Nitrate**.
3. The unit has monitored the monsoon drain round the clock. The attached nine effluent analysis report for the period from 04.08.2017 to 18.10.2017 from M/s Envirochem Research & Test Labs Pvt. Ltd. The results that all the **parameters of effluent being discharged from the unit are within specified norms**.
4. The unit also **placed purchased order for upgradation of effluent operations**, monitoring and control system and it will take **further 3-4 weeks** for installation and commissioning.
5. The unit has constituted a task force, which vigilant in monitoring the effluent at various locations in the plant.
6. Real time effluent monitoring system is in place at final discharge point of effluent connected to CPCB and UPPCB server.
7. Generation RO based effluent treatment and sewage treatment plants are in operation.

AND WHEREAS, the Unit was inspected by the officials of Central Pollution Control Board (CPCB) on 30.11.2017 and observed the following:

1. The unit and its ETP were found operational at the time of inspection.
2. The unit is manufacturing fertilizer (urea) Nitrogen content approximately 45%.
3. The wastewater generated from the various processes of the unit is categorized into two type (i) Nitrogenous (ii) Non-nitrogenous. The nitrogenous type wastewater generated from Ammonia & urea plants, whereas non-nitrogenous wastewater generated from various sources such as ammonia and urea plants, off-site facilities, captive power plant, DM plant, cooling tower blow down from clarifloculator etc.
4. The unit has two types of effluent treatment units such as a Hydrolyser Stripper Unit (HSU)-02 Nos. and an Effluent Treatment Plants (ETP). Nitrogenous wastewater from the unit were collected into Hold-up tank (capacity- 18000 m³) and is fed into Hydrolyser Stripper Unit to recover ammonia. However, non-nitrogenous type wastewater was treated through ETP (RO based).
5. As reported by unit representative, treated wastewater from HSUs, ETP and STP is reused in the plant for various purposes such as in cooling tower, DM plant, horticulture, cleaning, washing, cold yard ash spraying, sprinkling on roads near gate no. 6 to control dust emission vehicles entered into the plant.
6. The non-nitrogenous effluents (not required treatment) generated in the plant and the surplus treated wastewater from HSUs were found discharged through the cemented channel into the main drain at Panki Industrial area that further meets to River Pandu after travelling of around 3-4 km. At the end of cemented channel unit has installed an OCEMS and EMF at Gate no. 60, which was connected to CPCB server.
7. The unit is meeting its freshwater requirement through the Ganga canal which is approx. 1.4 km from the industry. The unit has a pond for storage of Ganga canal water in its unit premise. The fresh water is transported to the process unit through a pipeline which is equipped with flow meter.
8. The unit has valid consent to operate under Air/Water Acts and authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

9. The unit has 03 DG sets of 1000,250 and 250 KVA capacity for emergency power supply and kept under the acoustic enclosure.
10. As per the data made available by the unit on Ambient Air Quality and stack emission, were found well within prescribed norms.
11. The unit has maintained approx. 35 % of its area as a green belt.
12. During the inspection, various samples from ETP and STP was collected and analyzed for the performance evaluation. The lab analysis indicated that the UF system of ETP increase the concentration of Nitrate and NH₃-N instead of reduction.
13. The ETP effluent samples was collected and analytical results indicates (final discharge from the unit to outside) that unit is not complying w.r.t. **Nitrate: 28.8 mg/l** (as against norms of 10mg/l), **but no nitrate level is mentioned in consent to operate.**
14. It is evident from the results that the Unit is not meeting with the prescribed effluent discharge standards with respect to Nitrate.

AND NOW, THEREFORE, in view of the above observations and exercising powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, the following directions are being issued:

1. The unit **M/s Kanpur Fertilizers & Cement Ltd. (formerly known as Duncan fertilizer), CEE KAY Estate, Panki Industrial Area, P.O. Udyog Nagar, Kanpur, Uttar Pradesh** shall treat their effluent to meet the effluent discharge standards as notified under Environment (Protection) Rules, 1986.
2. The unit shall ensure continuous connectivity with CPCB server.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action without any further notice, in accordance with the provisions of the Environment (Protection) Act, 1986.

(S. P. SINGH PARIHAR)
CHAIRMAN

Copy to:

1. **Chairman,**
Uttar Pradesh Pollution Control Board
Building No. TC-12V, Vibhuti Khand,
Gomati Nagar, Lucknow : [With the request that prescribed discharge standards for Nitrate for fertilizer industry, under the Environment (Protection) Act, 1986 may be indicated in Consent to operate]
2. **The Advisor (CP Division),**
Ministry of Environment, Forests & Climate
Change, Indra Paryavaran Bhavan,
Jor Bagh Road, New Delhi - 110 003 : [For information please]
3. **The Regional Director,**
Northern Regional Office,
Central Pollution Control Board,
PICUP Bhawan, Vibhuti Khand,
Gomati Nagar, Lucknow : [For ensuring the compliance of the direction]
4. The Incharge IT Division, CPCB, Delhi
5. Master copy (Others), RG Division, CPCB, Delhi


(A.SUDHAKAR)
MEMBER SECRETARY

M/s Kanpur Fertilizers & Cement Ltd. (formerly known as Duncan fertilizer), CEE KAY Estate, Panki Industrial Area, P.O. Udyog Nagar, Kanpur, Uttar Pradesh